



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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December 18, 1997

TO: File

THRU: Daron Haddock, Permit Supervisor *DRH*

FROM: James D. Smith, Reclamation Specialist *JDS*

RE: TA of Co-Op's response to the November 1997 TA - Tank Seam Lease Addition Amendment, Co-Op Mining Company, Bear Canyon Mine, ACT/015/025 97-1, File #2, Emery County, Utah

SUMMARY

On March 28, 1997 Co-Op Mining Company submitted Amendment 97-I to expand the Bear Canyon Mine permit area to include federal lease U-024316. A Technical Analysis (TA) was sent to Co-Op in June 1997 and additional information, which was stamped as received by the Division on October 17, 1997, was submitted in response to the June TA. A second TA was sent to Co-Op in November 1997. The TA's sent to Co-Op in June and November were compiled from individual TA's prepared by James D. Smith, Sharon K. Falvey, Jess W. Kelley, and Susan M. White. Co-Op's response to the November 14, 1997 TA was stamped as received by the Division on December 8, 1997.

All baseline and operation- and reclamation-plan water-monitoring locations appear to be on Plates 2 and 7-4.

TECHNICAL ANALYSIS

ENVIRONMENTAL RESOURCE INFORMATION

MAPS, PLANS, AND CROSS SECTIONS OF RESOURCE INFORMATION

Regulatory Reference: 30 CFR Sec. 783.24, 783.25; R645-301-323, -301-411, -301-521, -301-622, -301-722, -301-731.

Analysis:

Monitoring and Sampling Location Maps

In-mine drill holes TS-1 through TS-10, TS-12, TS-13, and TS-14 are listed in Table 7.1-5 and locations are shown on submitted maps. Water sampling point WM-C and eleven other in-mine drill-holes are listed in Table 7.1-5 but could not be located on any submitted maps; Co-Op Mining Company has indicated in the Tank Seam amendment (Table 7.1-5) that the locations for these bore-holes are not known. Drill holes DH-1A, DH-2, DH-3, and DH-4; SDH-1, SDH-2, and SDH-3; and MW-116 and MW-117 are listed in Table 7.1-4 and locations are on Plate 7-4.

Water sampling locations UT-1, PS-1, TS-1, CS-1, BP-1, and LT-1 in Trail Canyon are shown on Plate 2 and not on Plate 7-4. These are stations from the Trail Canyon Mine and do not need to be included in the Bear Canyon Mine MRP.

Slightly different locations for stream monitoring site BC-1 are shown on copies of Plates 2 and 7-4 that were included with the December 8 submittal. Charles Reynolds stated during a phone conversation on December 18 that the location on Plate 7-4 is correct and that Plate 2 would be corrected for the final submittal.

Maps showing elevations and locations of monitoring stations used to gather data on fish and wildlife and air quality were not revised for the proposed Tank Seam amendment.

Findings:

Information provided in the proposed Tank Seam amendment is considered adequate to meet the requirements of the Maps, Plans, and Cross-Sections Resource Information section.

RECOMMENDATION

Deficiencies in the sections on Geology and in Hydrology that were identified in previous TA's have been addressed satisfactorily. No new deficiencies have been identified. Amendment 97-I, the Tank Seam amendment, is adequate to meet the requirements of the Coal Mining Rules pertaining to geology and ground-water hydrology.